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All Results[D Sturgeon](#)[C Boroni](#)[C Howard](#)[D Sitaram](#)[D Nolan](#)Using DVD Feature Films in the EFL Classroom - group of 4 »

J King - Computer Assisted Language Learning, 2002 - Taylor & Francis

... the closed captions key on a DVD remote control or ... teacher wants to skip some scenes,

DVD rewinding and ... such as sound only, silent viewing, pause/freeze-frame ...

Cited by 5 - [Related Articles](#) - [Web Search](#)An Open Platform for Multimedia Entertainment Systems - group of 14 »

M Lohse, P Slusallek - EUROPRIX Conference, 2002 - graphics.cs.uni-sb.de

... navigation in the local directory structure, DVD playback, and ... cording to user input with a remote control ... transitions (eg from "play" to "pause") or an ...

Cited by 3 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)DVD assembly, and associated apparatus, for a convergent device - group of 2 »

TJ Brase, DL Sturgeon, DK Zickefoose, CA Howard, ... - US Patent 6,012,112, 2000 - Google Patents

... REVERSE FORWARD PAUSE FIG. 7 184 ... Operational control over operation of the DVD assembly

is also provided by way of the remote-control, input actuator. ...

Cited by 3 - [Related Articles](#) - [Web Search](#)EDITING AND SHARING SYSTEM FOR REWRITABLE DISK MEDIA

JJ FITZPATRICK - EP Patent 1,228,508, 2002 - freepatentsonline.com

... The pause is a counterpart to pause operation in a VCR, for ... the edit information can be stored in remote computers, storage devices and DVD players and ...

[Cached](#) - [Web Search](#)Consumer video system for recording and playing video programming

D Trane - 2001 - freepatentsonline.com

... formats such as commonly found on DVD, mini-discs ... power supply, user buttons (ie, channel select, pause, arrows, power ... [0024] The external remote control device ...

[Cached](#) - [Web Search](#)DELETE AND UNDELETE FOR RECORDABLE DVD EDITING

SHU LIN, MA SCHULTZ - EP Patent 1,230,644, 2002 - freepatentsonline.com

... The pause is a counterpart to pause operation in a VCR ... to edit a bit stream on a recordable DVD disc. ... An EDIT button can be provided on a remote control device. ...

[Cached](#) - [Web Search](#)Improved playback control methods and arrangements for a DVD player

GF EVANS, A CHAKRABARTI - EP Patent 1,209,681, 2002 - freepatentsonline.com

... user operation (UOP) (eg, play, stop, pause, reverse, fast ... may be stored in the remote memory storage ... synchronization issues common to DVD player applications ...

[Cached](#) - [Web Search](#)Recording apparatus and method with automatic chapter making capability

M GUNJI, H KATAOKA, T YONEYAMA - EP Patent 1,205,933, 2002 - freepatentsonline.com
... 1, characterized in that the pausing director including a **remote** controller having
a **pause** button ... media such as a hard disk and a **DVD** (Digital Versatile ...
[Cached](#) - [Web Search](#)

[Method of menu-driven control of an external connected device in an
audio/video apparatus - group of 2 »](#)

JY Yoo, BJ Kim, KS Seo, HS Kim, NS Jo, SI Seo - 2001 - freepatentsonline.com
... or functions of external devices like **DVD** players that ... menu items associated with
playback, stop, **pause**, fast forward ... A method of menu-driven **remote** control of ...
[Cached](#) - [Web Search](#)

[Multicast distribution and control for streaming multimedia - group of 3 »](#)

AC Weaver, JW Van Dyke - Industrial Electronics Society, 2001. IECON'01. The 27th ...,
2001 - ieeexplore.ieee.org
... the media player, including play, **pause**, stop, forward ... Flash movie, the document
contains **HTML** elements and ... actions typically associated with **remote DVD** control ...
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E Asai, I Koren, CM Krishna - Frontiers in Education Conference, 2001. 31st Annual, 2001 - ieeexplore.ieee.org

... This button toggles **pause** and resume. ... 8. Wave **Window** Fig. ... [3] E. Asai, "Multimedia architecture simulator manual," <http://vsp2.ecs.umass.edu/dvd/doc/module4> ...

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Moving picture playback method and apparatus with the use of windows

T ZETTSU, I TORU - EP Patent 1,229,512, 2002 - freepatentsonline.com

... moving picture data recorded on a hard disk, **DVD**, another recording ... for returning the shape of the second window E32 to a rectangle during **pause** in the ...

[Cached](#) - [Web Search](#)

An Open Platform for Multimedia Entertainment Systems - group of 14 »

M Lohse, P Slusallek - EUROPRIX Conference, 2002 - graphics.cs.uni-sb.de

... high-level access and of- fers operations like "show symbol **pause** for 2 ... the un- derlying NMM nodes (eg DVB card access, **DVD** library, etc ... **Windows** Media Player. ...

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Multicast distribution and control for streaming multimedia - group of 3 »

AC Weaver, JW Van Dyke - Industrial Electronics Society, 2001. IECON'01. The 27th ..., 2001 - ieeexplore.ieee.org

... for the media player, including play, **pause**, stop, forward ... tag to close the browser **window**, revealing the ... actions typically associated with remote **DVD** control. ...

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Improved playback control methods and arrangements for a DVD player

GF EVANS, A CHAKRABARTI - EP Patent 1,209,681, 2002 - freepatentsonline.com

... only states that the navigator should **pause** until it ... A NULL pointer passed to the **DVD** API indicates that ... An example in the Microsoft **Windows** API: handleStart ...

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A Multimedia Course Delivery System Combining Web and CD/DVD-Based Technologies - group of 6 »

SR Thampuran - 2002 - ripples.cs.umass.edu

... MANIC which combines Web and CD/DVD-based technologies ... During recorded lectures, the student can **pause** to post ... are also indices in the video **window** for skipping ...

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book Just Xml - group of 3 »

JE Simpson - 2000 - books.google.com

... Videotape/DVD distributors 404 ... need is a plain old text editor—such as **Windows** Notepad ... forget about using that nifty new Kanji keyboard: **HTML** makes easyuse ...

[Cited by 18](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

DVD assembly, and associated apparatus, for a convergent device - group of

[2 »](#)

TJ Brase, DL Sturgeon, DK Zickefoose, CA Howard, ... - US Patent 6,012,112, 2000 - Google Patents

... 23, 1997; <http://www.c-cube.com/technology/dvd.html>. ... FORWARD PAUSE FIG. 7 ... 302 Page

8. 6,012,112 DVD ASSEMBLY, AND ASSOCIATED APPARATUS, FOR A CONVERGENT DEVICE ...

[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

[book Windows XP Pocket Reference](#) - [group of 2 »](#)

DA Karp - 2002 - books.google.com

... often repre- sents a CD or DVD drive, but it ... limited to three characters; for example, .html is perfectly ... NOTE Windows XP's filesystem is case-preserving, but ...

[Web Search](#) - [Library Search](#)

[A paradigm shift! The Internet, the Web, browsers, Java and the future of computer science education](#) - [group of 2 »](#)

CM Boroni, FW Goosey, MT Grinder, RJ Ross - Proceedings of the twenty-ninth SIGCSE technical symposium ..., 1998 - portal.acm.org

... to that next statement), step without pause, and continuous ... complete animator currently runs on Windows 95 and ... future, a digital video disk-DVD) and packaged ...

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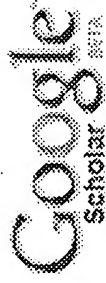
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[S Katinsky](#)

[M Burress](#)

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[G Burgess](#)

[B Edelman](#)

[Multicast distribution and control for streaming multimedia - group of 3 »](#)

AC Weaver, JW Van Dyke - Industrial Electronics Society, 2001. IECON'01. The 27th ..., 2001 - [ieeexplore.ieee.org](#)
... material was conventional movies on **DVD**, but further ... the media player, including
play, **pause**, **stop**, **forward** ... communicates with the client **JavaScript** using the ...

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[A Multimedia Course Delivery System Combining Web and CD/DVD-Based Technologies - group of 6 »](#)

SR Thampuran - 2002 - [ripples.cs.umass.edu](#)

... MANIC which combines Web and CD/DVD-based technologies. ... a Web-based tool written
in **JavaScript** which provides ... recorded lectures, the student can **pause** to post ...

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[\[book\] After Effects 5 Hands on Training](#)

L Weinman, CW Newman - 2002 - [books.google.com](#)

... **JavaScript's** Expressions Library ... **HTML** and QuickTime Links ... learners who are looking
for a great tool to make motion graphics for the Web, CD-ROM, **DVD**, video, or ...
[Web Search](#) - [Library Search](#)

[Web application for accessing media streams - group of 2 »](#)

S Katinsky, M Burress, J Furtado - US Patent 6,452,609, 2002 - Google Patents

... source code), <http://www.javasoft.com/applets/archive.beta.voltage/index.html>,
pp ... player for playing media objects, a sequencer which displays a **play** list that ...

Cited by 13 - [Related Articles](#) - [Web Search](#)

[Video interfacing and distribution system and method for delivering video programs](#)

D LeComte - 2002 - [freepatentsonline.com](#)

... 12, a CD recorder or a **DVD** recorder. ... Time features to support uninterrupted audio
and video **play**. ... Conditional access [0147] **HTML** browser, **JavaScript**, **SSL** [0148 ...

[Cached](#) - [Web Search](#)

[User interface design for keyframe-based content browsing of digital video - group of 2 »](#)

H Lee - Unpublished doctoral dissertation, Dublin City University, ..., 2001 - [compapp.dcu.ie](#)

... producers and various home video entertainment systems such as **DVD**, Web TV, Video on Demand are some of the applications coming up in the near future. ...
[Cited by 6](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Approaches to university network-based language learning - group of 3 »](#)
 G BURNAGE - ReCALL, 2001 - Cambridge Univ Press
 ... on screen much as a tape would **play** it. ... are available: C'eravamo Tanto Amati is a DVD version of ... This is a particular problem with **JavaScript/JS**cript, subtly ...
[Cited by 3](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[DVR Telephone answering device](#)

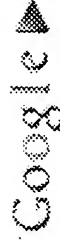
R Davis, A Yap, M Ficco - 2001 - freepatentsonline.com
 ... user interaction may be implemented using **JavaScript**(tm) ... may also include a PC that can **play** video or ... entertainment system (TV, stereo, tape deck, **DVD** player, CD ...
[Cached](#) - [Web Search](#)

[GRADUATE COLLEGE](#)

H WEN - 2002 - eml.ou.edu
 ... 4.2.3 **JavaScript**..... ... rewind, rewind, **pause**, stop and **play** buttons ...
[Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Automating Software Deployment - group of 6 »](#)

B Jai - 1999 - cs.nyu.edu
 ... technique that allows the developers to package their applications and provide an "installation trigger" in the form of a piece of **JavaScript** contained in ...
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Web Developer cheap & discount software - Shareware Shop

All-in-one DVD ripping software to rip DVD to all popular video and audio formats. ... XML

Area is XML editor written entirely in JavaScript. ...

www.xkee.com/web-authoring/ - 57k - [Cached](#) - [Similar pages](#)Apple - Mac OS X - 200+ New Features

DVD Video Color Controls: Play your DVDs play in the highest quality even in ... play, pause, stop, fast-forward and rewind — even in full-screen mode. ...

www.apple.com/macosx/newfeatures/over200.html - 43k - [Cached](#) - [Similar pages](#)pause resources on TechRepublic

Watch near DVD-quality video, view video clips in full-screen theater mode, ... has a comprehensive knowledge of JavaScript, HTML, XHTML, and XML and, ...

search.techrepublic.com/search/pause.html?&c=1&s=0&m=20&o=1&i=0&t=0 - 53k -

[Cached](#) - [Similar pages](#)Linux DVD HOWTO: Problems

OMS needs to use headers with dvd ioctl support. If things are set up wrong many things are undeclared and ... The play/pause/stop buttons may fail to work. ...

www.bigwebmaster.com/General/Howtos/DVD-HOWTO-7.html - 16k -

[Cached](#) - [Similar pages](#)Flash Professional 8 Video Integration - lynda.com Online Training ...

You are receiving this message because JavaScript is disabled in your browser's settings.

... Creating video controls - play and pause, 11:30, 17.5 MB ...

movielibrary.lynda.com/html/modPage.asp?ID=182 - 41k - [Cached](#) - [Similar pages](#)Intelligently Software at FilesLand

Intelligently Software - dvd ripper pop-up pvr popup stoper web optimizer ... A first class JavaScript/HTML/XML/XHTML editor with full syntax parsing. ...

www.filesland.com/software/intelligently.html - 15k - [Cached](#) - [Similar pages](#)(PDF) TUXIA Purple iTV STB Demo User's Guide for s-boxFile Format: PDF/Adobe Acrobat - [View as HTML](#)

The Purple local user interface is a complex XML/HTML/Javascript ... In Full screen mode in the DVD feature, sometimes the Pause/Play graphic "toggle" ...

www.gctglobal.com/Forum/Stino/Purple_TASTE_UGuide_s-box_V5.pdf - [Similar pages](#)Software Download: Javascript

Supports HTML 4.0, XHTML 1.0 and 1.1, PHP, Perl (cgi), XML, JavaScript, CSS, Java and other ... and a convenient pause/resume function so users can start, ...

www.sharewareconnection.com/titles/javascript12.htm - 90k - [Cached](#) - [Similar pages](#)Apparatus for reproducing AV data in interactive mode, method of ...

A 'markup document' is written in markup language such as XML, HTML, ... In other words, when the user presses the 'Play/Pause' key 36 displayed in the ...

www.freepatentsonline.com/20040131334.html - 68k - [Cached](#) - [Similar pages](#)

WDVL: Embedding Video in a Web Page - Page 3

Remember to place the **HTML** page and the ASX file in the same directory. ... fast forward, rewind, **pause** and audio controls such as volume and mute. ...

www.wdvl.com/Multimedia/Windows_Media/media3_2.html - 59k - [Cached](#) - [Similar pages](#)

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TECHNOLOGY.

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  NS4 DHTML
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  NS5 DHTML
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**Jeff Rule's
DYNAMIC HTML DEMOS**


TV Appearances

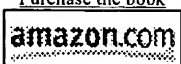
I made an appearance on ZDTV's Screen Savers show on December 30th, 1998 to discuss Dynamic HTML and to promote the book. The link below goes to my segment of the show, please excuse the encoding I didn't do it.
[\[see it\]](#)


Conferences

I accepted an award at the Real Conference on May 7th, 1999 for the work that Discovery did creating a Live Web Event for the Titanic mission. Skip ahead in the presentation to time point 50:34 to see my acceptance.
[\[not available\]](#)


I spoke at Streaming Media East 99 in New York on June 29th, 1999. The topic of the panel was Advanced Streaming Media Applications. I was representing Discovery Channel Online. My panel took place at 2:45 PM.
[\[not available\]](#)

Convergence Release interviewed me for my feelings on SMIL and Interactive TV. I ended up getting edited down to a short blurry clip.
[\[not available\]](#)

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Winner of


I participated in a Panel discussion on 3/6/01 on Multicast delivery of Streaming Video, focusing on satellite delivery. The discussion was webcast by Streaming Media.com.

[\[hear it\]](#)

Interviews

I was recently interviewed by the design magazine High Five about the book, Dynamic HTML, my design experience and working in Interactive TV and broadband development. Check the article out at High Five under Profiles.

[\[read it\]](#) April 1999

Magazine Articles

I've written or am currently writing articles for most of the major developer resources on the web. If you'd be interested in having me write an article [contact](#) me.

My monthly Lycos Column for their Interactive Zone area.

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Developer.com IE5 Behaviors Article

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Macromedia's DHTML Zone IE4 Multimedia Active X Controls

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Gamelan.com Java Game development (Jan 27th)

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WDVL: Windows Media Part IV: Javascript Control of Windows Media (05/25/01)

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Streaming Media Magazine: SMIL Slide Shows Printed on 03/19/01

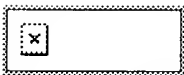
Streaming Media Website: Windows Media Slide Show

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Home Entertainment Networks

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Multicast distribution and control for streaming multimedia

Weaver, A.C. Van Dyke, J.W.
Dept. of Comput. Sci., Virginia Univ., Charlottesville, VA;

This paper appears in: [Industrial Electronics Society, 2001. IECON '01. The 27th Annual Conference of the IEEE](#)

Publication Date: 2001

Volume: 3, On page(s): 1806-1809 vol.3

Meeting Date: 11/29/2001 - 12/02/2001

Location: Denver, CO, USA

ISBN: 0-7803-7108-9

References Cited: 11

INSPEC Accession Number: 7306761

Digital Object Identifier: 10.1109/IECON.2001.975564

Posted online: 2002-08-06 23:58:27.0

Abstract

Modern industrial networks are increasingly using multimedia to support online broadcast of training videos, educational material, and recorded company announcements. When the material is to be viewed by groups of people, unicast distribution increases network load proportionally to the number of viewers, while multicast distribution creates constant network load but eliminates an individual's ability to control the stream. We introduce a hybrid platform for multimedia distribution whose network and server load is independent of the number of viewers, yet retains individual stream control. We have built a proof-of-concept system based upon commercial PC technology that supports the simultaneous distribution of multiple copies of multiple multimedia rules. We show how web programming using JavaScript, ActiveX controls, ASP, and HTML can be incorporated with commercial, off-the-shelf media servers and media players to create an Internet multimedia server with constant network and server load characteristics

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Windows Media: JavaScript Buttons

Jeff Rule

June 11, 2001

Embedding the player Microsoft came up with is a good first step to getting video running in the page. However, let's face it, Microsoft isn't exactly a design shop and the default control buttons they give you have all the flair of a 1975 Sylvania Superset TV knob. It cost you millions of dollars and thousands of lives to get your site looking the way you want. The last thing you're about to do is screw it up with some dull gray buttons! Fortunately, Microsoft, realizing it's own limitations, has allowed us to use our own graphics to control the video.

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- ☐ JSP/Java Servlets

Getting control of the graphic images for the Windows Media Player is only the first step. JavaScript allows you to go far beyond this and make the video interact with other elements on the page. I believe this is the true power of streaming video. If you put streaming video up against TV its going to lose every time, the quality just isn't there yet, and who wants to sit at their desk and watch video. The power of streaming is unleashed when video is made part of a

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Whitepaper: Business Communications Applicati
Network Business Communications Applications are quic becoming a requirement for businesses seeking competi

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video application where the video is complimented by elements such as synchronized slides, chat, user feedback and the ability to pause the video while you explore something else. These are things that Interactive TV (ITV) is still a long way from doing. Believe me, I developed ITV for Discovery Channel and ITV is not going to be catching up to the Web soon in this regard, despite the hype.

differentiation through increased business agility. Learn how mapping out a leadership position in this application category delivering tangible business value to those enterprises implementing its solutions. >

Whitepaper: Migrating to Converged Networks and Telephony Applications Learn how enterprises and their staffs can ensure that they are receiving the full mission-critical benefits of converged applications by lowering the risks associated with the migration to IP telephony and using the most sophisticated monitoring and management of applications and infrastructure.

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Developing streaming applications is a lot harder than merely digitizing video and placing it on the Web. That's why you haven't seen a lot of it yet, because the tools for development are in their infancy. Later on we're going to take a look at some tools by SoftTV that are making Streaming Applications happen now with WYSIWYG tools. These visual layout tools are what is needed to make creating a video application as easy as producing a PowerPoint slide show. Let's look at streaming applications and how they are used in the consumer and more importantly the corporate market place.

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Video on Demand

What is going to make the consumer want to watch video on their computer instead of on their TV? Well the first thing is video on demand (VOD). You can watch video whenever you want. Did you miss the sports highlights at 11 PM? Well ESPN still has them available whenever 24 hours a day.

Is there a channel you don't get? I don't get TechTV, put out by CNET, here in Washington DC. You'd think but we don't. But I can check the clips on CNET's site at CNET TV.

OK, you're saying devices like the Tivo can time-shift TV and record it. That's true, but they can only hold 30 Web, especially with a broadband connection, can hold unlimited amounts of video.

Chapterization

For those of you who own DVDs you know that movies are "chapterized". In other words, they are broken down into size nuggets so you can skip around in the movie and find the scene where the guy has his heart ripped out in *Indiana Jones and the Temple of Doom* (love that scene). Movies are a lousy use of this technology since they are viewed as a whole, but what if you applied this technology to sports, news, or financial data?

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Chapterization is especially useful in training in business. If a worker needs some remedial training on how to perform a specific task, they can go to the video, skip directly to the part they need, get the information and get back to work. They don't have to pull the information from VHS video tape then they need to locate the tape, find a VCR and spend time rewinding and fast forwarding to find the section they need.

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
Searchable Video

The next step beyond *chapterized* video is *searchable* video. Using this technology you can search to find a word was said during the presentation. You can also turn the spoken word into searchable text via voice recognition theory, this sounds great, making video as easy to search as Web pages through a search engine. Unfortunately, this technology falls under the field of jet packs and flying cars — we never seem to quite get there. Believe me.

Back when I was at Discovery Channel, we ran Virage's speech recognition package. Even with a great video Discovery programming — the program could only get around 50% right and it had a horrible time with proper nouns (people, places and things). Since these are the kind of words you would want to search against, the process was useless. The best searches happened when the program had closed captioning and the Virage suite could pull text directly from the Vertical Blanking Interval (VBI). For those of you not familiar with the VBI it is extra lines in the video that are not devoted to the picture. In recent years they have been dedicated to closed captioning text. In Europe, they have dedicated to TeleText channels that resemble text-only pages displayed on your TV.

These speech recognition programs become even less valuable in the Enterprise where the video rarely has closed captioning added. In addition, corporate video has a wide variety of accents and poorly recorded sound. This speech simply can't be understood by the speech recognition programs.

True searchable video based on speech recognition remains a future technology.

The Basics - Page 2 

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Windows Media: JavaScript Buttons

*Jeff Rule**June 11, 2001*

Embedding the player Microsoft came up with is a good first step to getting video running in the page. However, let's face it, Microsoft isn't exactly a design shop and the default control buttons they give you have all the flair of a 1975 Sylvania Superset TV knob. It cost you millions of dollars and thousands of lives to get your site looking the way you want. The last thing you're about to do is screw it up with some dull gray buttons! Fortunately, Microsoft, realizing it's own limitations, has allowed us to use our own graphics to control the video.

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Getting control of the graphic images for the Windows Media Player is only the first step. JavaScript allows you to go far beyond this and make the video interact with other elements on the page. I believe this is the true power of streaming video. If you put streaming video up against TV it's going to lose every time, the quality just isn't there yet, and who wants to sit at their desk and watch video. The power of streaming is unleashed when video is made part of a

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video application where the video is complimented by elements such as synchronized slides, chat, user feedback and the ability to pause the video while you explore something else. These are things that Interactive TV (ITV) is still a long way from doing. Believe me, I developed ITV for Discovery Channel and ITV is not going to be catching up to the Web soon in this regard, despite the hype.

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The Basics - Page 2

Jeff Rule

June 11, 2001

With all the great interactivity available to Windows Media let's start with the basics. As I mentioned before, Web page developers don't always want to be stuck with Microsoft's choice of buttons. The first step is using JavaScript to control the embedded Windows Media player using form style buttons. These have the advantage of being placed anywhere on the page and controlling the video, while the Microsoft controls must be placed directly below the video.

This will work with Netscape 4+ and IE 4+. Document Object Model (DOM) is a fancy term used to describe how elements on a Web page are addressed. This code embeds the video in the Web page. You will need to substitute your own video for yourfile.asx that I have used as a placeholder. Notice that we have turned off the Windows Media Player controls by setting ShowControls equal to false. Place the following code in the <body> of the document.

```
<OBJECT ID="WinMedia" width=160 height=120
classid="CLSID:22D6F312-B0F6-11D0-94AB-0080C74C7E95"
codebase="http://activex.microsoft.com/activex/controls/
mplayer/en/nsmp2inf.cab#Version=5,1,52,701" standby=
>Loading Microsoft® Windows® Media Player components..."
type="application/x-oleobject">
<PARAM NAME="FileName" VALUE="yourfile.asx">
<PARAM NAME="AutoStart" Value="True">
<PARAM NAME="ShowControls" VALUE="False">
<PARAM NAME="ShowStatusBar" VALUE="True">
<EMBED type="application/x-mplayer2"
```

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```

pluginspage="http://www.microsoft.com/windows/mediaplayer/
" SRC="yourfile.asx"
autostart=1 width=160 height=120
ShowControls=false>
</EMBED>

</OBJECT>

```

[Lines 1-6 above are one line as are lines 11-15. They have been split for formatting purposes.]

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Once we have the video embedded in the Web page we are ready to use our form style buttons to control the video. The following code creates three buttons, Play, Pause and Stop. Place the following in the <body> of the document below the embedded video described above.

```

<FORM NAME="PlayerButtons">
<INPUT NAME="Playbtn" TYPE="button"
onclick="document.WinMedia.Play();"
<INPUT NAME="Pausebtn" TYPE="button"
onclick="document.WinMedia.Pause();"
<INPUT NAME="Stopbtn" TYPE="button"
onclick="document.WinMedia.Stop();"
</FORM>

```

[Lines 2 and 3 above are one line as are lines 4 and 5 and 6 and 7. They have been split for formatting purposes.]

Developer Channel

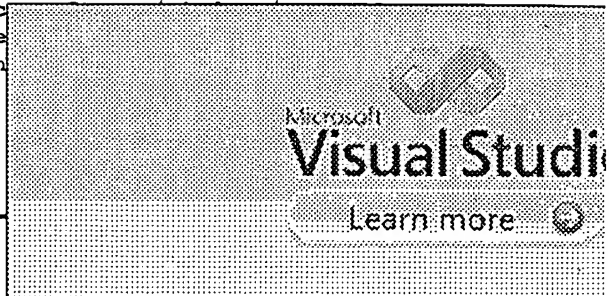
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These bits of JavaScript code are being used to control the Windows Media Player through Methods that are built into the WMP. The main methods that are exposed are:

| Operation | Method |
|----------------|----------------------------|
| Play | MediaPlayer.Play(); |
| Pause | MediaPlayer.Pause(); |
| Stop | MediaPlayer.Stop(); |
| Previous Track | MediaPlayer.Previous(); |
| Fast Reverse | MediaPlayer.FastReverse(); |
| Fast Forward | MediaPlayer.FastForward(); |
| Next Track | MediaPlayer.Next(); |

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to use your own custom graphical buttons that allow you to control the look and feel? Using your own graphics : developer to build the video into the Web page and create an integrated application. While Windows Media : you control over the player when in standalone mode, these skins can't be used to modify an embedded vid Fortunately, the code isn't much harder to use your own graphics.

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```
<A HREF="javascript:docum
<IMG SRC="play.gif" WIDTH
ALT="PLAY BUTTON"></A>

<A HREF="javascript:docum
<IMG SRC="pause.gif" WIDT
ALT="PAUSE BUTTON"> </A>

<A HREF="javascript:docum
<IMG SRC="stop.gif" WIDTH
ALT="STOP BUTTON"> </A>
```

[Lines 1-3 above are one line as are 5-7 and 9-11. They have been split for formatting purposes.]

Controlling the Windows Media Player with JavaScript is really very easy. Where it gets difficult is when you start synchronizing video with other elements on the page, such as turning graphics into slide shows.

Windows Media: JavaScript Buttons
 Synchronized Content - Page 3

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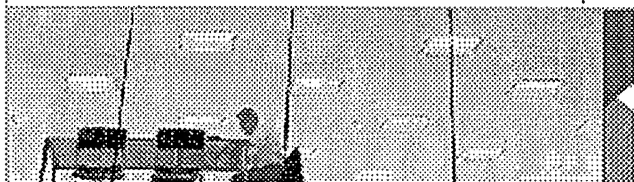
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Synchronized Content - Page 3

*Jeff Rule**June 11, 2001*

Creating code that synchronizes slides along with media have been around since RealAudio 3. However, doing it easily is rather new. Several programs have been developed recently that make it much easier.

Windows Media On Demand Producer

This tool is free from Microsoft and can be downloaded at their site. It was developed in conjunction with Sonic Foundry and is a lightweight version of their Vegas Video production tool.

WMOP

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The Novell SUSE Linux Solution

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Performance of SUSE Linux Enterprise

paper documents the excellent results of exercises conducted with database and financial services on SUSE Linux Enterprise Real Time. It also includes real-time tests comparing the PDL times of SUSE Linux Enterprise Real Time with Red Hat and other Linux

Whitepaper: SUSE Enterprise Linux This whitepaper outlines the specific technical capabilities of SUSE Linux Enterprise Real Time, including enterprise security and how SUSE Linux Enterprise Real Time can be used for your Service-oriented Infrastructure (SOI)

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a fairly robust tool that can do a lot more than just add URLs to the stream. It works with your video capture card, if you have one on your computer, to capture video directly into the program or you can load in WAV files or AVI video files as we are doing. The scripting you create, including the Commands, can be imported and exported between files making it easy to reuse. Many templates also ship with WMOP that allow you to encode at common speeds. If you don't like the templates you can also modify them.

how SUSE Linux Enterprise Real Time can be used to build generation of data-center computing, creating an on-demand infrastructure that is modular, highly responsive and easy and control. Click here.

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Once you have an AVI file or other appropriate source file opened in WMOP, you can add Commands at time points throughout the program. The URL command is used and the Parameter is set to the name of the HTML page containing the various slides you want to display. When you are done entering URL commands choose the Publish action under the File menu. This will give you a choice of several prepared Templates. To create a slide show choose the (URL Flip) Slide Show selection and the program will create the slide show for you.

WMOP is a great free tool, but it is limited in the design and layout of the slide show. To create a more robust slide show you will need to go with a third party tool.

SofTV Products

I was recently introduced to these tool for creating both on- demand and live synchronized presentations on without additional plugins. On-demand production of synchronized content is difficult, but similar live production is harder.

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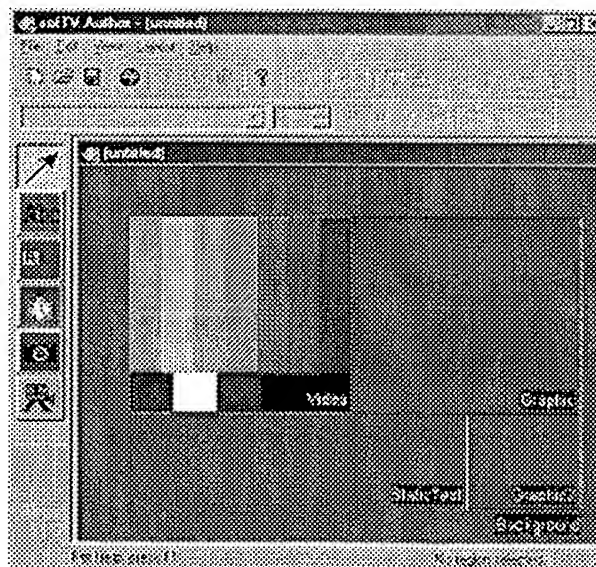
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Softv Author allows you to do visual layout and graphics on the page, including drag and resizing of the elements of the page.

Once the pages are visually laid out the published to a Web site by pressing a publish button. The dynamic HTML which is used on the pages is written by the program and is compatible with both Internet Explorer 4 and Netscape 4.0. Real Media and Windows Media.

Softv PresenterLive

This tool is Softv's most interesting. It allows you to produce live webcasts with synchronized audio and video. It may sound simple, but in reality injecting commands into the Windows Media Encoder is very difficult.

Use the Author software to layout the Web presentation. Then open the PowerPoint presentation into PresenterLive. The slides are converted from PowerPoint to JPG files and the presentation is saved as a single HTML file. The end user's browser to be precached. Another program called LiveSync is used by the producer to control the

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This program links to yet another program — TriggerMaker — which actually talks to the Windows Media Encoder and injects the page turn commands into the video stream.

At the client end, the triggers are received by a small Java program running in the Web page. This Java program then turns on the client end.

SoftTV has produced a suite of programs that are on the leading edge of technology. They allow you to replicate functionality that until now would have taken an expensive service provider to produce.

These programs are available at Softtv.net.

Conclusion

Windows Media reaches its full potential when it is combined with other elements on the Web page to produce video applications. As bandwidth increases on the Web you will start to see better video applications aimed at weather and news broadcasts. Yahoo FinanceVision is a good example of a first attempt at this new medium.

Over time, with the creation of new tools such as SoftTV, these capabilities will trickle down into the hands of trainers and individual users. That's when things will start getting interesting.



The Basics - Page 2
Windows Media: JavaScript Buttons

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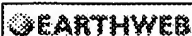
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Windows Media Playback in a Web Page

Jeff Rule

May 7, 2001

I've always wanted to do Interactive TV (ITV), ever since I took my first crayon and drew on the television. Little did my parents realize during all the shouting that I was taking a first step in building my resume. Interactive TV has been slow to develop, but in the meantime another screen came to be popular in homes, the computer.

Let's face it, watching video on the computer — even at 300kbps — is still an experience only a hard core techie could love. It isn't going to beat out television. Where things get interesting is when the video gets combined with other information or applications that enhance or allow us to manipulate the video.

In this article, I'm going to show you how to include Windows Media video in your Web pages. This is your first step to becoming an Interactive TV programmer.

Putting Video Online

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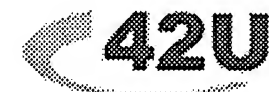
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Before you start creating interactive video on the Web you need a place to host your video. One thing that all articles seem to neglect is how the average person gets access to a video server at a reasonable price.

If you have a copy of Windows Media 2000 Server you can install Windows Media Services yourself and you can run all your testing locally. But what if you're the average user with a single computer and slow Internet access? What you need is someone else to host your video at a price that isn't going to tax your depleted tech stock portfolio.

Its called Playstream

You can get a free site for 15 days and then rates are as low as \$4.99/month after that. I swear, I'm not associated with them. They provide online statistics and allow you to grow to be as big as you want to be. If you come up with some content that is particularly compelling then they can even set up a pay-per-view service. Once you get your video online your ready to become an ITV programmer.

Launching the Player

Video files for Windows Media consist of two files. The main video file (.ASF) and a "pointer" file (.ASX or .WVX) that you use to point to the video server. For those of you who are familiar with Real Video the relationship is the same as (.RM) to the RAM file.

The ASX and the WVX files are the exact same thing and contain the same information. WVX is simply what I decided to call the ASX file in Windows Media 7. To ensure backward compatibility I would continue to use ASX in this article will refer to ASX files.

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| | Pointer File | Media File |
|---------------|--------------|----------------|
| Windows Media | asx or .wvx | .asf, wmv, wma |
| Real Media | .ram | .rm, ra |

The simplest way to get video into your Web page is to place a link to the "pointer" file in your page. The pointer file, either .wvx or .asx, resides on your Web server with the HTML, not on the streaming server.

This link will appear exactly like any other link on the page, but instead of pointing to a new Web page it points to a video file. Once clicked on the browser is smart enough to launch the Windows Media Player as a stand-alone application and play the video.

Simple ASX Files

First, let's take a look at a simple ASX file that will serve to launch your video. In the next section I will discuss the XML-based language of the ASX file and show how it can control the video file.

Place this in your HTML:

```
<A HREF="yourfile.asx">Link to Streaming Content</A>
```

See ASX Notes

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Here is the file *yourfile.asx*. This should go in the same directory as the HTML file that points to it. Create it in your HTML editing program and save it as a normal text file with the .asx extension.

```
<ASX version = "3.0">
<ENTRY>
  <REF HREF =
    "mms://win.playstream.com/jrule/video/sample.asf" />
</ENTRY>
</ASX>
```

It's that simple. Now remember this doesn't embed the video in the page; it launches the standalone player. how to embed the video later on.

Complex ASX Files - Page 2

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Complex ASX Files - Page 2

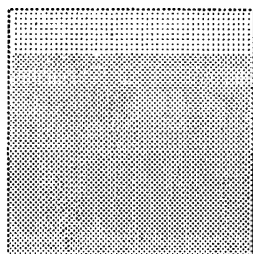
Jeff Rule

May 7, 2001

For those of you who only need your ASX file to pop up a video you can skip this section and go right on to embedding the video. For others that would like to learn about playlists, titles, copyright info, advertising insertion, banner ads and server failure protection please keep reading.

It should be noted that if you included any info about the title, copyright, clip names or author when encoding the file the information encoded with the file will override the metadata in the ASX file.

ASX metafiles are written using XML syntax. Let's take a look at a complex ASX file and then we can take it apart and examine the individual pieces.

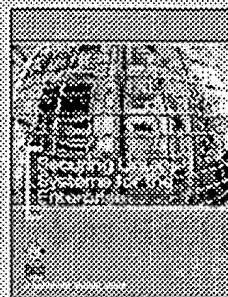
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Whitepaper: Business Communications Applications Network Business Communications Applications are quickly becoming a requirement for businesses seeking competitive

```
<ASX version = "3.0">
<TITLE>Title of the Show</TITLE>
<ABSTRACT>This text will show up in the Properties dialog box</ABSTRACT>
<AUTHOR>Author</AUTHOR>
<COPYRIGHT>2001 by Company</COPYRIGHT>
<Entry>
  <Ref href = "mms://VideoServername/video.asx" />
  <Banner href="http://Servername/Path/Banner1.gif" />
    <MoreInfo href="http://www.microsoft.com/Products/WindowsMedia/ASX/ASXIntro.asp" />
  <Abstract>Description of the video</Abstract>
</Banner>
</Entry>
<Entry>
  <Title>Markers Discussion</Title>
  <Copyright>2001 WDVL</Copyright>
  <Logo href = "http://servername/Path/Banner2.gif" />
  <Style style = "ICON" />
</Entry>
```

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```
<MoreInfo
  href = "http://www.microsoft.com/windows/windowsmedia">
</MoreInfo>
<Ref href = "mms://VideoServername/video3.asf" />
<Ref href = "http:// VideoServername/video3.asf " />
</Entry>
</ASX>
```

Elements Defined:

<TITLE> The title element shows up as Show: in the Windows Media Player when it is in "Classic Compact Mode". It should be noted that many of the elements do not display in "Classic Compact Mode".

<ABSTRACT> The abstract appears as a Tooltip when you leave the cursor over the Show: title for a few seconds. The abstract tag can be used to describe the TITLE or it can be used to describe a CLIP.

<AUTHOR> The author tag is reserved for the name of the person creating the file. It can also be used to contain additional information about the clip. It also appears under Properties.

<COPYRIGHT> The Copyright is a text string that shows up in the player window. It also appears under Properties.

<ENTRY> The Entry element is the basic element of the ASX metafile. The Entry element defines a single piece of content that will appear in the player. Multiple Entry elements can be used, multiple Entries are each a Clip.

Multiple Entries can be placed in order to create a Playlist. These elements will play sequentially.

```
<Entry><Ref href = "mms://Server/content/title1.asf" /></Entry>
<Entry><Ref href = "mms://Server/content/title2.asf" /></Entry>
<Entry><Ref href = "mms://Server/content/title3.asf" /></Entry>
<Entry><Ref href = "mms://Server/content/title4.asf" /></Entry>
```

<BANNER> With this element you can place an advertising banner (192 pixels x 34 pixels) image on the bottom of the video display area in Full Mode. You can then add a hyperlink to the banner with a child element.

<MORE INFO HREF> The more info tag contains a URL link so that when the banner is clicked a browser is launched and the user is taken to the URL. The MORE INFO tag can also be used in conjunction with the EI that when the video clip is clicked on it launches a browser.

<LOGO> This element can place a small (16 pixels x 16 pixels) GIF image next to the Title of the Show, or a status on Windows Media Player when in Full Mode. This graphic replaces the icon next to the Show title within the main area of the metafile, and it replaces the graphic next to the Clip title when placed within an element.

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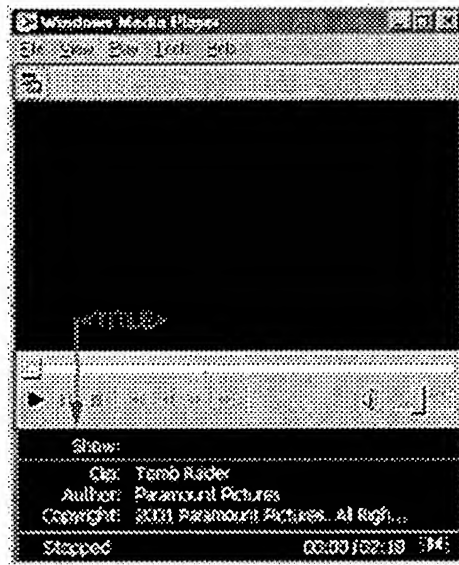
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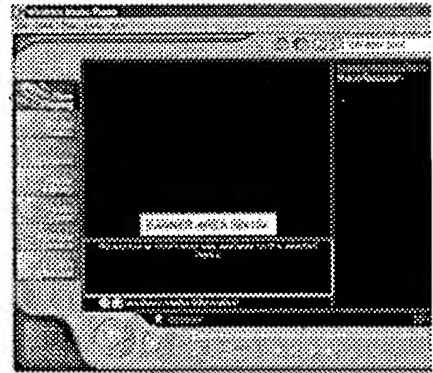
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Classic Compact Mode



Full Mode

Windows Media 7 is considerably more customizable than earlier players. Some modifications can be made using the ASX files. Even more modifications can be made using Windows Media's new "skin" features. Skin you to modify the look and feel of the player window using a XML based language.

Future generations of Windows Media will allow the developer greater control over the look and feel of the player as inserting need tags that increase advertising and ad insertion opportunities. Microsoft is very eager to be come up with new business models that allow them to make money with their video assets. Microsoft will of small percentage off the top.

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Embedding Video in a Web Page - Page 3

Jeff Rule

May 7, 2001

Embedding video into a Web page is fairly easy to do and offers many more opportunities to customize the user experience. When a video is playing by itself in a Windows Media Player it is no different than watching a TV program, except the video reception is much worse and its on demand.

When the video is embedded in a Web page all sorts of possibilities exist to enhance the video with other Web media types and create a true video application. Maybe you would like to give the user the ability to jump around in the video by chapters (much like a DVD), or maybe you would like to have a diagram that loads to offer more detail about a product, or maybe you just want to load an advertisement during the program so that you have a business model.

Embedding the video into a Web page allows you to create a true interactive video application that takes the passive TV viewing experience and makes it interactive and user customizable.

Create the ASX file

Just as before, we need to create the ASX for Windows. In fact you can use the simple one you created earlier.

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Here is the code you'll need to place into your HTML page. Remember to place the HTML page and the ASX file in the same directory.

```
<OBJECT
ID="WinMedia"
classid="CLSID:22d6f312-b0f8-437c-b5e3-1089facd1e2f"
CODEBASE= "http://activex.microsoft.com/controls/windows/MSO-Controls.cab"
controls=/mplayer/en/nsmp21.mpl
width=160 height=120 standby="" type="application/x-mplayer2"
Windows Media Player components="" type="application/x-oleobject">

<PARAM NAME="FileName" VALUE="yourfile.asx">
<PARAM NAME="AutoStart" Value="true">
<PARAM NAME="ShowControls" Value="true">
<Embed type="application/x-mplayer2" pluginspage=
"http://www.microsoft.com/windows/MediaPlayer/"
src="yourfile.asx"
Name=MediaPlayer
AutoStart=0
Width=160
Height=120
autostart=1
ShowControls=1
/</embed>
</OBJECT>
```

Let's take a look at this big chunk of code. The object tag at the start refers to an Active X object that Internet Explorer uses to play the video. The ID tag names the video. Later this will help us control it with JavaScript. Name it anything you like. Don't worry about the long classid number, it's a number Microsoft uses to make sure every Active X control is unique. The only part you change in the first part is the width and height of the video.

Domain Name Lookup

Search to find the availability of a domain (complete domain name with extension (.com, .org, .net, etc.))

Good Sizes

| Size | Bitrate |
|-------------------------|--|
| Width=160 height=120 | Use this for 28.8 kbps |
| Width=240 height=160 | Use this for 56 kbps video |
| Width=320 height=240 | Use this for 100kbps or higher. Consider full screen video for 300 higher. |

The <param> names are where you'll make your changes. There are a huge number of possible parameters used to modify the Windows Media Player. First, we will look at the ones that are essential to embed the vid and get it playing. Later we'll look at the full list. Here's a short definition of the one's used here.

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<param> Name Definition

Search Works

**<param>
name**

Definition

| | |
|--------------|--|
| FileName | Points to the .asx file, you can place the asx files in directories just like a g |
| AutoStart | Starts the video playing automatically when the page loads, if set to "false" button must be pressed to start playback |
| ShowControls | Shows the basic controls for starting, stopping, fast forward, rewind, pause controls such as volume and mute. |

The final part of the code covers backwards compatibility with Netscape. If you are only using this to display Explorer then the whole <embed> part of the code can be removed. Netscape uses the <embed> tag to play the Web page. Netscape must have the Windows Media plug-in installed in order to play the video. The plug-in automatically when Windows Media Player is installed on a computer using Netscape. Notice that you have param names here. Netscape uses "1" for True and "0" for "False".

◀ Complex ASX Files - Page 2
Windows Media Playback in a Web Page
Parameters - Page 4 ▶

Up to => Home / Multimedia / Windows_Media

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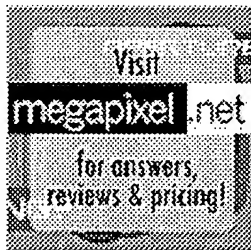
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Parameters - Page 4

Jeff Rule

May 7, 2001

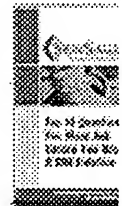
This is all you need in order to do a simple embed of Windows Media into a Web page and have it playback in Internet Explorer or Netscape. However, Microsoft offers many other parameters. There are too many to explain in the course of this article, but I've listed some of them below and the parameter names are fairly self-explanatory. Full details on the parameters can be found at Windows Media SDK.

<OBJECT

```
ID="MediaPlayer" classid="CLSID:62959641-888F-11D0-B980-0080C74C7E6E"
CODEBASE="http://activex.microsoft.com/controls/mplayer/en/nsmp2inf.cab#Version=5.1.52.701"
width=160 height=120 standby="Loading Microsoft Windows Media Player components..."
type="application/x-oleobject"
<PARAM NAME="AudioStream" VALUE="1">
<PARAM NAME="AutoSize" VALUE="1">
<PARAM NAME="AutoStart" VALUE="1">
<PARAM NAME="AnimationAtStart" VALUE="1">
<PARAM NAME="AllowScan" VALUE="1">
<PARAM NAME="AllowChangeDisplaySize" VALUE="1">
<PARAM NAME="AutoRewind" VALUE="1">
<PARAM NAME="Balance" VALUE="100">
<PARAM NAME="BaseURL" VALUE="">
<PARAM NAME="BufferingTime" VALUE="10">
<PARAM NAME="CaptioningID" VALUE="">
<PARAM NAME="ClickToPlay" VALUE="1">
<PARAM NAME="CursorType" VALUE="1">
<PARAM NAME="CurrentPosition" VALUE="0">
<PARAM NAME="CurrentMarker" VALUE="0">
<PARAM NAME="DefaultFrame" VALUE="1">
<PARAM NAME="DisplayBackColor" VALUE="1">
<PARAM NAME="DisplayForeColor" VALUE="16777215">
<PARAM NAME="DisplayMode" VALUE="0">
```

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```

<PARAM NAME="DisplaySize" VALUE="2">
<PARAM NAME="Enabled" VALUE="1">
<PARAM NAME="EnableContextMenu" VALUE="-1">
<PARAM NAME="EnablePositionControls" VALUE="-1">
<PARAM NAME="EnableFullScreenControls" VALUE="0">
<PARAM NAME="EnableTracker" VALUE="1">
<PARAM NAME="Filename" VALUE="this tutorial teaches you how to configure an Eclipse Rich Client Platform application to consume a Web service hosted in I WebSphere Application Server v6.0.2.">
<PARAM NAME="InvokeURLs" VALUE="1">
<PARAM NAME="Language" VALUE="-1">
<PARAM NAME="Mute" VALUE="0">
<PARAM NAME="PlayCount" VALUE="1">
<PARAM NAME="PreviewMode" VALUE="0">
<PARAM NAME="Rate" VALUE="1">
<PARAM NAME="SAMILang" VALUE="">
<PARAM NAME="SAMISyle" VALUE="">
<PARAM NAME="SAMIFilename" VALUE="JavaScript Tutorial for Programmers">
<PARAM NAME="SelectionStart" VALUE="0">
<PARAM NAME="SelectionEnd" VALUE="0">
<PARAM NAME="SendOpenStateChangeEvents" VALUE="1">
<PARAM NAME="SendWarningEvents" VALUE="1">
<PARAM NAME="SendErrorEvents" VALUE="1">
<PARAM NAME="SendKeyboardEvents" VALUE="1">
<PARAM NAME="SendMouseClickEvents" VALUE="1">
<PARAM NAME="SendMouseMoveEvents" VALUE="1">
<PARAM NAME="SendPlayStateChangeEvents" VALUE="1">
<PARAM NAME="ShowCaptioning" VALUE="0">
<PARAM NAME="ShowControls" VALUE="1">
<PARAM NAME="ShowAudioControls" VALUE="1">
<PARAM NAME="ShowDisplay" VALUE="1">
<PARAM NAME="ShowGotoBar" VALUE="0">
<PARAM NAME="ShowPositionControls" VALUE="-1">
<PARAM NAME="ShowStatusBar" VALUE="-1">
<PARAM NAME="ShowTracker" VALUE="1">
<PARAM NAME="TransparentAtStart" VALUE="0">
<PARAM NAME="VideoBorderWidth" VALUE="5">
<PARAM NAME="VideoBorderColor" VALUE="4227327">
<PARAM NAME="VideoBorder3D" VALUE="0">
<PARAM NAME="Volume" VALUE="-150">
<PARAM NAME="WindowlessVideo" VALUE="0">
</OBJECT>

```

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[Lines 2 and 3 above are one line as are lines 4-8. They have been split for formatting purposes.]

Conclusion

Microsoft has made it very easy to launch Windows Media in the standalone Windows Media Player or to embed in a Web page. While stand-alone video can be useful, the true value comes when the video is embedded in and can be surrounded by supporting material that takes video from being an independent media type to being a video application. In the next article, I will show you how to further integrate Windows Media into an application and the surrounding material can truly interact.

Embedding Video in a Web Page - Page 3

Windows Media Playback in a Web Page

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